



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF FORENSIC SCIENCE

CALIBRATION LABORATORY  
A Nationally Accredited Laboratory

737 NORTH 5TH STREET  
RICHMOND, VIRGINIA 23219  
(804) 786-6971

### CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II  
SERIAL NUMBER: 010656  
DATE CERTIFICATION METHOD PERFORMED: February 9, 2015  
DATE RECERTIFICATION DUE: August 8, 2015

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

#### Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L	0.150 ± 0.008 g/210 L
0.080 ± 0.004 g/210 L	0.250 ± 0.008 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of k=3. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

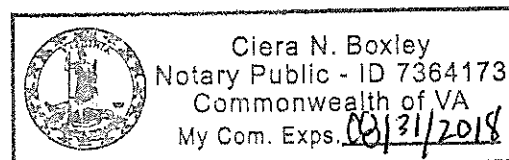
Michelle M. Billeter  
Forensic Scientist

CITY OF RICHMOND  
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 11<sup>th</sup> day of February, 2015 by Michelle M. Billeter

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2018



**Department of Forensic Science**  
**Breath Alcohol Section**  
**Instrument Maintenance History**  
**2/9/2014 To 2/10/2015**

DBH  
mmB

<b>Instrument Serial Number:</b> 010656	<b>As of 10-Feb-15</b>
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Maintenance	Certification	Technician	
Date	Date	Initials	Remarks
09-Feb-15	09-Feb-15	DBH (21250)	CERTIFIED.
04-Sep-14	04-Sep-14	HMS (18910)	REPLACED UPS BACK-UP BATTERY, CERTIFIED, REPLACED DRY GAS STANDARD.
20-Mar-14	20-Mar-14	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.

DBH  
mmb

# INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010656 Worksheet Start Date 2/9/2015  
Location Little Creek Naval Amphibious Base  
Address 1175 Nider Blvd Norfolk VA 23521  
DFS Technician Donald Hall License No. 21250  
☐ Laboratory ☒ On-Site

Site Specification: No detrimental environmental conditions exist. ☒

Instrument Barometer (mm HG) 756 Reference Barometer (mm HG) 756  
Reference Barometer(RB)Serial # 009109 RB Calibration Due 7/28/2015

## Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.305
0.300	0.298	0.289	0.306	Sample 2	0.305
Precision		sample min	sample max	Sample 3	0.304
0.001		0.304	0.305		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.101
0.100	0.100	0.097	0.103	Sample 2	0.100
Precision		sample min	sample max	Sample 3	0.100
0.001		0.100	0.101		

Dry gas standard Lot No. (with tank no.) AG400202-37

- ☐ Replaced dry gas standard (+O-ring)  
☐ Installed at Location  
☐ Removed to DFS-Central

Supplies  
Mouthpieces  
Certificates of Analysis  
Operator Worksheet  
Other:



Notes:

Instrument Serial Number

010656

Certification Date

2/9/2015

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.252
0.250	0.249	0.241	0.256	Sample 2	0.252
Precision		sample min	sample max	Sample 3	0.252
0		0.252	0.252		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.151
0.150	0.149	0.144	0.153	Sample 2	0.151
Precision		sample min	sample max	Sample 3	0.151
0		0.151	0.151		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.080
0.080	0.080	0.077	0.083	Sample 2	0.080
Precision		sample min	sample max	Sample 3	0.080
0		0.080	0.080		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Donald B Hall

Date

2/10/15

Issuing Analyst

Michelle Bullitt

Date

2/10/15

JPD

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010656      Test Number: 253  
Test Date: 02/09/2015      Test Time: 13:51 EST

Technician Initials: DBH

Dry Gas Target: 0.249

Lot Number: 1611425014-01      Exp Date: 07/05/2016

Tank Pressure: 830 psi      Barometric Pressure: 756 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:52
BLK	0.000	13:52
CHK	0.252	13:53
BLK	0.000	13:55
CHK	0.252	13:56
BLK	0.000	13:57
CHK	0.252	13:58
BLK	0.000	13:59

**Success**

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification

DBH  
mmB

Department of Forensic Science

Serial Number: 010656      Test Number: 254  
Test Date: 02/09/2015      Test Time: 14:02 EST

Technician Initials: DBH

Dry Gas Target: 0.149

Lot Number: 0771315013-02      Exp Date: 05/01/2015

Tank Pressure: 218 psi      Barometric Pressure: 756 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:03
BLK	0.000	14:03
CHK	0.151	14:04
BLK	0.000	14:06
CHK	0.151	14:07
BLK	0.000	14:08
CHK	0.151	14:09
BLK	0.000	14:10

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

**Intox EC/IR-II: Certification**

DBH  
mmHg

*Department of Forensic Science*

Serial Number: 010656      Test Number: 255  
Test Date: 02/09/2015      Test Time: 14:13 EST

Technician Initials: DBH

Dry Gas Target: 0.080

Lot Number: 34413080I2-02      Exp Date: 01/01/2016

Tank Pressure: 120 psi      Barometric Pressure: 756 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:13
BLK	0.000	14:14
CHK	0.080	14:15
BLK	0.000	14:16
CHK	0.080	14:17
BLK	0.000	14:18
CHK	0.080	14:19
BLK	0.000	14:20

**Success**

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

**Intox EC/IR-II: Certification**

*Department of Forensic Science*

Serial Number: 010656      Test Number: 256  
Test Date: 02/09/2015      Test Time: 14:23 EST

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0771302011-03      Exp Date: 05/01/2015

Tank Pressure: 281 psi      Barometric Pressure: 756 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	14:23
BLK	0.000	14:24
CHK	0.019	14:25
BLK	0.000	14:26
CHK	0.019	14:27
BLK	0.000	14:28
CHK	0.019	14:29
BLK	0.000	14:30

**Success**

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success



Intox EC/IR-II: Accuracy Check

DB.  
mmHg

*Department of Forensic Science*

Serial Number: 010656      Test Number: 257

Test Date: 02/09/2015      Test Time: 14:33 EST

Dry Gas Target: 0.298

Lot Number: AG428003-10      Exp Date: 10/07/2016

Tank Pressure: 174 psi      Barometric Pressure: 756 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	14:33
CHK	0.305	14:34
BLK	0.000	14:36
CHK	0.305	14:37
BLK	0.000	14:38
CHK	0.304	14:39

Test Status: Success

Calibration CRC: 237DD915

Intox EC/IR-II: Accuracy Check

DBH  
mmB

*Department of Forensic Science*

Serial Number: 010656      Test Number: 258

Test Date: 02/09/2015      Test Time: 14:42 EST

Dry Gas Target: 0.100

Lot Number: AG400202-37      Exp Date: 01/02/2016

Tank Pressure: 232 psi      Barometric Pressure: 756 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:43
CHK	0.101	14:44
BLK	0.000	14:46
CHK	0.100	14:46
BLK	0.000	14:48
CHK	0.100	14:49

Test Status: *Success*

Calibration CRC: 237DD915

DBH  
mmB




COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS  
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
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BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY HALL, DONALD, B		AGENCY DFS Central Lab
DFS LICENSE NUMBER 21250	LICENSE EXPIRES 10/01/2016	DATE TEST CONDUCTED 02/09/2015
TEST EQUIPMENT NUMBER 010656		

RESULTS: TIME SAMPLE TAKEN 14:58 EST  
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20 \_\_\_\_\_.

BREATH TEST OPERATOR
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☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS \_\_\_\_\_  
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS \_\_\_\_\_  
OPERATOR'S SIGNATURE

FOR COURT



# IntoxNet MIS Report

Report Generated 10 Feb 2015 at 07:58

TIN  
DBH  
mmB

## Test Results

Instrument Serial Number 010656

Test # 000259

Subject Test

Test Location 1 Department of  
Test Date 09 Feb 2015

Test Location 2 Forensic Science  
Test Time 14:51  
Remote/Local Local

Test Location 3  
System Check Passed

Operator's Last Name HALL  
Agency DFS Central Lab  
Card Serial Number 121250  
Subject's Last Name INSTRUMENT  
Subject's Middle Initial  
Driver's License Number

Operator's First Name DONALD

Operator's Middle Initial B  
License Number 21250

Effective Date 10/01/2014

Expiration Date 10/01/2016

Subject's First Name TEST

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Expiration 00/00/0000

Court Name DFS

End Date 09 Feb 2015  
End Time 14:59

Result Time 14:58

Result Date 09 Feb 2015  
Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 14:52

Data Type BLK

Sample Value 0.000

Sample Time 14:52

Data Type CHK

Sample Value 0.100

Sample Time 14:53

Data Type BLK

Sample Value 0.000

Sample Time 14:55

Data Type SUBJ

Sample Value 0.000

Sample Time 14:55

Data Type BLK

Sample Value 0.000

Sample Time 14:56

Data Type SUBJ

Sample Value 0.000

Sample Time 14:58

Data Type BLK

Sample Value 0.000

Sample Time 14:59

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG400202-37

Standard Expiration Date 01/02/2016

Tank Pressure 227

Barometric Pressure 756 mmHg

Blow Sample Number 1 Blow Duration 3.97 sec

Blow Volume 2012 cc End-of-Blow Time 14:55

Blow Sample Number 2 Blow Duration 4.13 sec

Blow Volume 2105 cc End-of-Blow Time 14:58

Tamper Evident Stamp 6740b50c

Test Status Code 0

Test Status Success